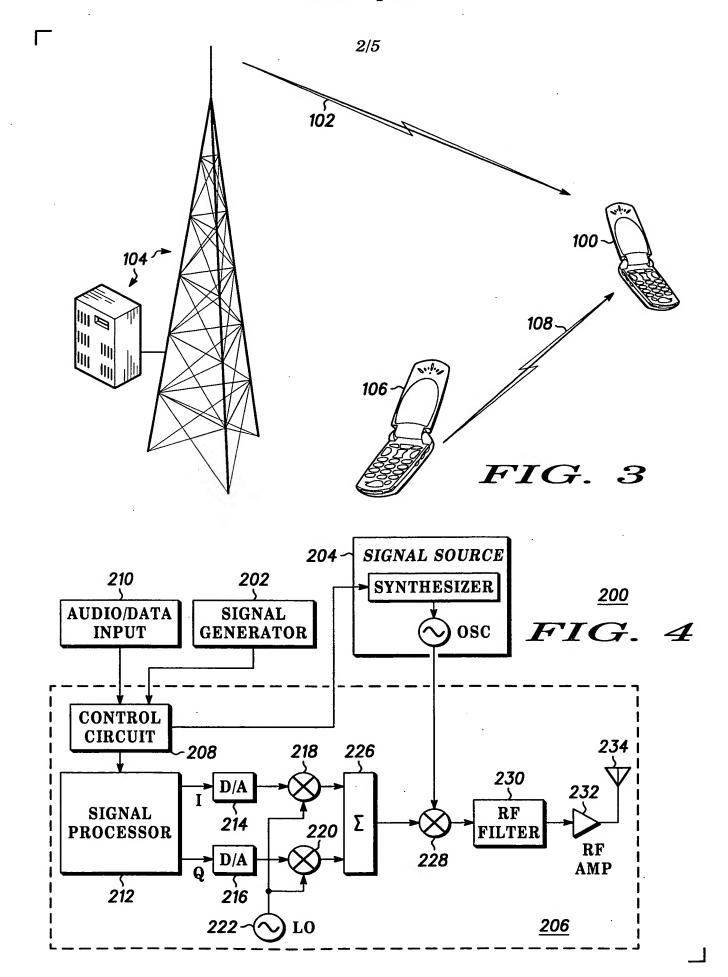
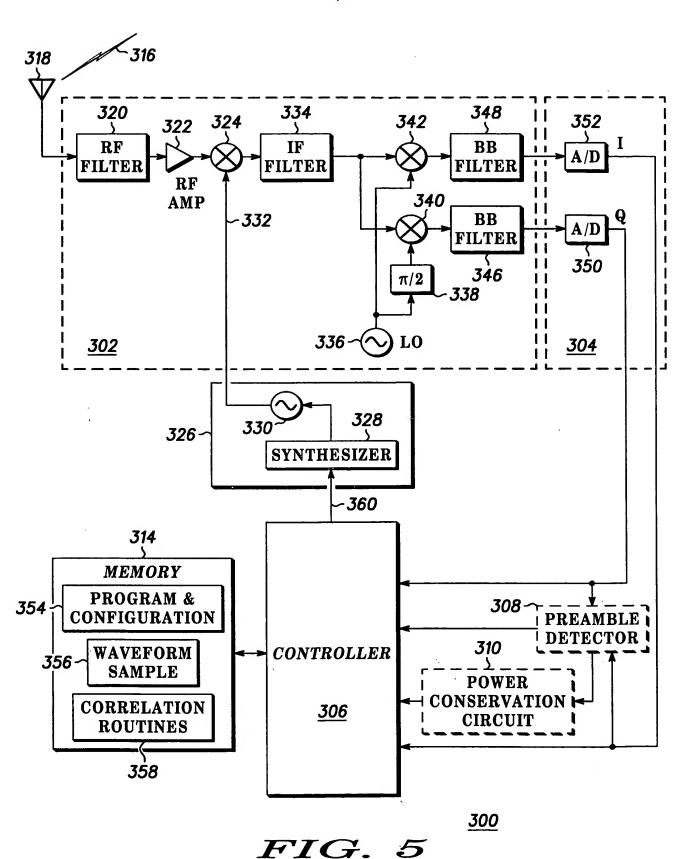


FIG. 2





4/5

GENERATING A SET OF KNOWN PREAMBLE
WAVEFORMS WHERE AT LEAST ONE PREAMBLE
WAVEFORM IS DISTINGUISHABLE FROM A
REMAINING SET OF PREAMBLE WAVEFORMS

62

63

FORMING A SET OF KNOWN, PERIODIC, PREAMBLE WAVEFORMS USING CONTINUOUS-PHASE FREQUENCY-SHIFT KEYING, MODULATED SUCH THAT THE SIGNALS TOGGLE BETWEEN TWO FREQUENCIES

MAKING THE PREAMBLE WAFEFORMS DISTINGUISHABLE FROM ONE ANOTHER EITHER DYNAMICALLY OR APRIORI BY ALTERING AT LEAST ONE AMONG A FREQUENCY SPACING, A DUTY CYCLE WITH WHICH THE FREQUENCIES ARE TOGGLED, AND A CODE SIZE

7 TRANSMITTING AT LEAST ONE DISTINGUISHABLE PREAMBLE WAVEFORM BASED ON AN ASSOCIATION WITH A CALL TYPE AND A RECEIVER ID

CALCULATING A CORRELATION BETWEEN A RECEIVED SIGNAL AND AN UNDISTORTED VERSION OF A TRANSMITTED PREAMBLE WAVEFORM, FOR EVERY KNOWN PREAMBLE WAVEFORM WITHIN THE SET

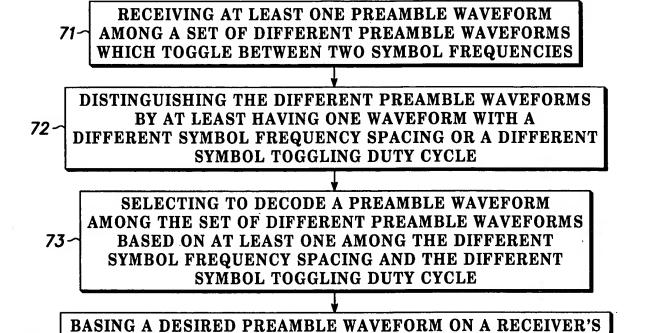
REJECTING THE RECEIVED SIGNAL IF A RATIO OF AN UNDESIRED-TO-DESIRED CORRELATION EXCEEDS A PREDETERMINED THRESHOLD, FOR ANY ONE OF A SET OF UNDESIRED PREAMBLES

67 COMPUTING A MEASURE OF ENVELOPE VARIATION FOR A RECEIVED ENVELOPE

REJECTING THE RECEIVED SIGNAL IF A NORMALIZED CORRELATION METRIC WITH A DESIRED PREAMBLE SIGNAL FALLS BELOW A PREDETERMINED THRESHOLD WHILE THE RECEIVED ENVELOPE IS MEASURED TO BE FAIRLY CONSTANT HAVING MINOR OR NO ENVELOPE VARIATION

MEASURING THE ENVELOPE VARIATION AS A NORMALIZED VARIANCE OR BY COMPUTING THE NUMBER OF RECEIVED SAMPLES WHICH FALL WITHIN A REGION, WHERE THE REGION IS FORMED AS A FUNCTION OF AN AVERAGE POWER OF THE RECEIVED SAMPLES

FIG. 6 60



CALL TYPES AND IDENTIFIERS ASSOCIATED WITH EACH OF THE RECEIVER'S CALL TYPES THAT ARE AVAILABLE

 $FIG. 7^{-\frac{70}{2}}$